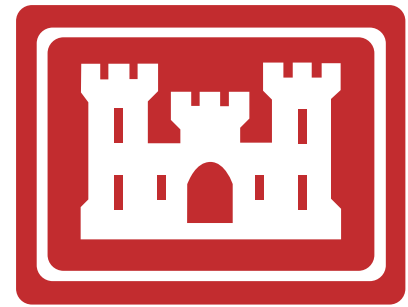


# SMIAC

## Soil Mechanics Information Analysis Center



### SMIAC's scope of responsibility includes:

- Earthquake Engineering
- Engineering Geology
- Geophysics
- Hydrogeology
- Rock Mechanics
- Seismology
- Soil and Rock Testing
- Soil Mechanics

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The SMIAC was established within the Geotechnical Laboratory (GL) of the Engineer Research and Development Center (ERDC), Waterways Experiment Station Site to provide a focal point for information related to soil and rock mechanics. The SMIAC is supported by GL's multi-disciplinary technical staff, which offers expertise in the areas of soil mechanics, rock mechanics, engineering geology, seismology, geophysics, hydrogeology, and earthquake engineering. SMIAC maintains a comprehensive in-house library of reports and other materials published by GL over the years.

In answering requests, the SMIAC also has access to the ERDC Research Libraries which contain more than 600,000 items, including books, journals, conference proceedings, technical reports, dissertations, specifications and standards, microfilm, and video and audio tapes. The SMIAC has the added advantage of total access to ERDC's information technology, communication, and computer resources, including fiber-optic communications, computer video graphics, automated databases, and optical disk storage and retrieval. In addition, the ERDC-operated DoD High-Performance Computing Major Shared Resource Center offers cutting-edge capabilities for computational archival storage, scientific visualization, and networking.

### Special Tasks & Products Partnering Opportunities

Literature research, information synthesis, publications location, research reviews, and methodology comparisons on topics of mutual interest to GL and other interested parties are available from SMIAC on a cost-reimbursable basis under various forms of technical assistance and cooperative research and development agreements.

#### Geotechnical Laboratory (GL)

GL is the DoD research leader for Airfields and Pavements and Sustainment Engineering and is currently conducting the only earthquake engineering research program in the country devoted exclusively to dams. Computer modeling efforts in groundwater simulations, soil plowing, rock erosion, seepage analysis, and soil and rock deformation are also underway. Cooperative research and development and other types of partnering agreements between GL and other interested parties are available to perform work of mutual interest.

#### SMIAC Newsletter

This newsletter, published semiannually, highlights SMIAC activities, research in progress in GL, and recent Technical Reports and other publications of GL researchers.